

# What's the chance of rain?

West North Central

These tables convert the probability of precipitation (PoP) provided by The Weather Channel to the observed frequency of precipitation.

## Warm Season (April - September)

Lead time (days)	Forecasted Probability of Precipitation (PoP)										
	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
1	0.02	0.05	0.10	0.29	0.48	0.54	0.66	0.80	0.81	0.88	0.87
2	0.03	0.08	0.15	0.32	0.47	0.58	0.61	0.74	0.83	0.94	-
3	0.04	0.11	0.15	0.34	0.51	0.63	0.67	0.78	-	-	-
4	0.04	0.13	0.17	0.33	0.49	0.63	0.63	0.73	-	-	-
5	0.07	0.15	0.18	0.31	0.45	0.50	0.50	-	-	-	-
6	0.09	0.16	0.18	0.31	0.41	0.36	0.35	-	-	-	-
7	0.12	0.19	0.22	0.28	0.37	0.50	0.31	-	-	-	-
8	0.13	0.20	0.24	0.24	0.27	0.29	0.31	-	-	-	-
9	0.16	0.22	0.21	0.23	0.26	0.30	0.27	-	-	-	-
overall	0.08	0.15	0.17	0.30	0.43	0.55	0.35	0.77	0.81	0.91	0.86

N : A total of 181,648 PoP-observation pairs were obtained covering the period from 01 November 2008 to 31 October 2010.

## Cool Season (October- March)

Lead time (days)	Forecasted Probability of Precipitation (PoP)										
	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
1	0.02	0.04	0.07	0.18	0.33	0.38	0.47	0.61	0.67	0.70	0.76
2	0.02	0.06	0.08	0.19	0.35	0.42	0.53	0.59	0.67	0.84	-
3	0.03	0.07	0.09	0.26	0.50	0.64	0.60	0.69	-	-	-
4	0.03	0.08	0.12	0.27	0.46	0.56	0.46	0.65	-	-	-
5	0.04	0.10	0.15	0.26	0.45	0.47	0.32	-	-	-	-
6	0.05	0.11	0.16	0.26	0.38	0.27	0.28	-	-	-	-
7	0.09	0.14	0.18	0.24	0.29	-	0.22	-	-	-	-
8	0.09	0.14	0.16	0.17	0.23	0.27	0.26	-	-	-	-
9	0.11	0.14	0.16	0.18	0.24	0.12	0.23	-	-	-	-
overall	0.06	0.10	0.13	0.23	0.38	0.42	0.31	0.61	0.66	0.73	0.74

N : A total of 167,003 PoP-observation pairs were obtained covering the period from 01 November 2008 to 31 October 2010.

Note: Data is for the West North Central Climate Region of the US, which includes MT, NE, ND, SD, and WY.

PoP-lead time pairs with fewer than 30 forecasts are excluded.

Source: Bickel, J.E., E. Floehr, and S-D. Kim. 2011. Comparing NWS PoP Forecasts to Third-Party Providers.

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